

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A fixing apparatus comprising a heating roller, a pressure roller that presses recording material to outer circumferential surface of the heating roller, a partial heating means that heats the heating roller, and a temperature detecting means that detects the temperature of the heating roller, in which the heating roller is heated by the partial heating means so that an image is fixed with heat on the recording material, which passes between the heating roller and the pressure roller, wherein the temperature detecting means is disposed in a region of the heating roller heated by the partial heating means, and wherein the temperature detecting means is disposed in a region where the maximum amount of heat generation of the heat generating portion of the heating roller is not less than 1/e times.

2. (Original) The fixing apparatus according to claim 1, wherein the partial heating means is provided inside of the heating roller.

3. (Original) The fixing apparatus according to claim 1, wherein the partial heating means is provided outside of the heating roller.

4. (Original) The fixing apparatus according to claim 3, wherein the partial heating means is a heat source with an electromagnetic induction heating system that causes the heating roller to generate heat by generating an eddy current in a heat generating layer of the heating roller in a magnetic field generated by a magnetic flux generating means, the magnetic flux generating means is disposed facing the outer peripheral surface of the heating roller with a constant gap formed relative to the outer peripheral surface of the heating roller, and the temperature detecting means is disposed in a region where the heating roller faces the magnetic flux generating means.

5. (Canceled)

6. (Currently amended) The fixing apparatus according to claim 15, wherein the temperature detecting means is disposed at the position where the amount of heat generation of the heat generating portion of the heating roller is maximum.

7-18. (Canceled)

19. (Previously presented) An image forming apparatus comprising the fixing apparatus according to claim 1.

20. (Canceled)